

REMARKS

Claims 1 and 5 have been amended.

Claims 1–8 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Jochheim (U.S. Patent No. 6,137,050) in view of Petratos et al. (U.S. Patent No. 4,680,676). For at least the following reasons, the Examiner's rejection is respectfully traversed.

None of the references disclose or suggest “an antenna disposed on the rear surface of said printed board ... wherein the antenna is accommodated in the resin housing” as recited in claim 1. Similar language is found in claim 5.

The Office action acknowledges that Jochheim fails to disclose an antenna disposed on the rear surface of the printed board, but cites Petratos as discloses these elements in Fig. 2, elements 284, 136, 288, and col. 5, lines 16-40.

In Petratos, col. 5, lines 16-40, discloses an antenna 284 attached to the upper surface of a control head 280. An antenna connector 300 connects the antenna 284 to a connector cable 302, 304, 136 (col. 5, lines 34-40), which is attached to an antenna cable 134 extending from the radio board 124 (col. 2, lines 63-65).

Although the antenna cable 134 extends from the Petratos radio board 124, the Petratos antenna 128 is located above the radio board 124 and attached to the upper surface of the control head 280. Since the Petratos antenna 284 is located above the radio board 124, Petratos does not disclose or suggest an antenna disposed on a rear surface of the printed board. Because the Petratos antenna is attached to the upper surface of the control head 280, Petratos also does not disclose or suggest an antenna accommodated in the resin housing. Thus, even if combined, the references do not disclose or suggest all the element of the claimed invention.

Further with regards to claim 1, none of the references disclose or suggest “a part of the printed board is accommodated in the resin housing and a remaining part of the printed board is accommodated in the metal housing” as recited in claim 1.

The Advisory action states that in Jocheim “a part of the printed board is accommodated in the resin housing (fig. 1, printed board 7, within element 5)”. However, as clearly seen from where edges of housing 5 and housing 6 align in Fig. 1, the printed board 7 is entirely within housing 6. Since Fig. 1 in Jocheim does not show that any part of the printed board 7 is within housing 5, Jocheim does not disclose or suggest that a part of the printed board 7 is accommodated in the housing 5. Therefore, even if combined, the references do not disclose or suggest all the elements of the claimed invention.

Furthermore, there is no suggestion or motivation for one skilled in the art at the time the invention was made to combine Petratos with Jochheim to arrive at the claimed invention.

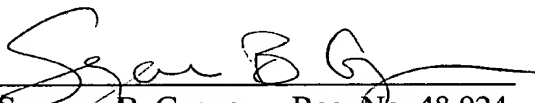
Petratos discloses an antenna 284 attached to the upper surface of a control head 280 (col. 5, lines 12-40. An antenna connector 300 connects the antenna 284 to a connector cable 302, 304, 136, which is attached to an antenna cable 134 extending from the radio board 124.

The Jochheim housing consists of an upper housing shell 5 and a lower housing shell 6. Jochheim indicates that the lower shell 6 is employed as shielding in order to achieve EMC shielding, but Jochheim does not explicitly disclose or suggest the kinds of materials of the lower shell 6. In the case that the lower shell 6 works as the EMC shielding, the Jochheim antenna 4 should be arranged so as to be away from the lower shell 6. However, modifying Jocheim with the antenna elements of Petratos would place the antenna cable within the lower shell 6. Thus, there is no motivation or suggestion to combine Petratos with Jochheim. Reconsideration and withdrawal of the rejection based upon the combination of references is respectfully requested.

In light of the foregoing, it is respectfully submitted that the present application is in a condition for allowance and notice to that effect is hereby requested. If it is determined that the application is not in a condition for allowance, the Examiner is invited to initiate a telephone interview with the undersigned attorney to expedite prosecution of the present application.

If there are any additional fees resulting from this communication, please charge same to our Deposit Account No. 16-0820, our Order No. 32439.

Respectfully submitted,
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